

Title (en)

HOT ROLLING ROLL EXCELLENT IN ABRASION RESISTANCE AND REDUCED IN SEGREGATION OF CARBIDE

Title (de)

WALZE ZUM WARMWALZEN MIT SEHR HOHER VERSCHLEISSFESTIGKEIT UND REDUZIERTER KARBIDENTMISCHUNG

Title (fr)

CYLINDRE DE LAMINAGE A CHAUD PRESENTANT UNE EXCELLENTE RESISTANCE A L'ABRASION ET UNE SEGREGATION DU CARBURE REDUITE

Publication

**EP 0852162 A4 20020306 (EN)**

Application

**EP 97926254 A 19970616**

Priority

- JP 9702062 W 19970616
- JP 17728096 A 19960618
- JP 24000796 A 19960823
- JP 30353296 A 19961030

Abstract (en)

[origin: WO9748505A1] A high-performance, hot-rolling, high-speed steel roll which possesses excellent abrasion resistance and, at the same time, when produced by an economically advantageous centrifugal casting method, does not cause segregation of any carbide. The hot rolling roll has an outer layer comprising, on a weight basis, C: 2.4 to 2.9 %, Si: not more than 1 %, Mn: not more than 1 %, Cr: 12 to 18 %, Mo: 3 to 9 %, V: 3 to 8 %, and Nb: 0.5 to 4 %, the above constituents simultaneously satisfying requirements represented by the following formulae: (1)  $0.27 \leq \text{Mo} (\%) / \text{Cr} (\%) \leq 0.7$  and (2)  $\text{C} (\%) + 0.2 \cdot \text{Cr} (\%) \leq 6.2$ , with the balance consisting of Fe and unavoidable impurities.

IPC 1-7

**B21B 27/00**

IPC 8 full level

**B21B 27/00** (2006.01); **B32B 15/01** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [A] EP 0559899 A1 19930915 - KAWASAKI STEEL CO [JP]
- See references of WO 9748505A1

Cited by

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**WO 9748505 A1 19971224**; BR 9702366 A 19990720; CA 2228488 A1 19971224; CA 2228488 C 20011218; CN 1108204 C 20030514; CN 1197415 A 19981028; DE 69718760 D1 20030306; DE 69718760 T2 20030612; EP 0852162 A1 19980708; EP 0852162 A4 20020306; EP 0852162 B1 20030129; JP 3124557 B2 20010115; MX 9801158 A 19980531; US 6095957 A 20000801

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